Aktenkopie

PCI	— For receiving Office use only		
	International Application No.		
REQUEST			
AEQUES1	International Filing Date		
The undersigned requests that the present			
international application be processed			
according to the Patent Cooperation Treaty.	Name of receiving Office and "PCT International Application"		
IGE, Bern Box No. 1 TITLE OF INVENTION	Applicant's or agent's file reference (if desired) (12 characters maximum) 03/064 WO		
THE OF MIVENTION			
New IGBT cathode design with improved safe operation	ng area capability		
	n is also inventor		
Name and address: (Family name followed by given name; for a legal enti The address must include postal code and name of country. The country of it Box is the applicant's State (that is, country) of residence if no State of residence	ity, full official designation. he address indicated in this ce is indicated below.)  Telephone No.		
ABB Technology AG	Facsimile No.		
Affolternstrasse 44	Teleprinter No.		
CH-8050 Zürich			
Schweiz	Applicant's registration No. with the Office		
State (that is, country) of nationality:  CH	State (that is, country) of residence:		
This person is applicant for the purposes of:  all designated States  all designated the United States	States except the United States the States indicated in		
Box No. III FURTHER APPLICANT(S) AND/OR (FURTH	are supplemental box		
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of courts. The	y, full official designation. This possess is		
Transaction is, country) of residence if no state of residence	e is indicated below.) applicant only		
RAHIMO Munaf			
Bachweg 10	·		
CH-5619 Uezwil	inventor only (If this check-box is marked, do not fill in below.)		
Switzerland	Applicant's registration No. with the Office		
State (that is, country) of nationality:	State (that is, country) of residence:		
GD	CH		
This person is applicant for the purposes of:  all designated the United States all designated the United States.	States except the United States the Character in the Character in the United States		
Further applicants and/or (further) inventors are indicated on	a continuation sheet.		
Box No. IV AGENT OR COMMON REPRESENTATIVE;			
The person identified below is hereby/has been appointed to act on of the applicant(s) before the competent International Authorities as	representative		
Name and address: (Family name followed by given name; for a legal entity, The address must include postal code and name of coun	6.11 - C - : 1.1 · · · · · · · · · · · · · · · ·		
ABB Schweiz AG	Facsimile No.		
Intellectual Property (CH-LC/IP)	++41(0)58 585 76 55		
Brown Boveri Strasse 6	Teleprinter No.		
CH-5400 Baden, Schweiz			
	Agent's registration No. with the Office		
Address for correspondence: Mark this check-box where no space above is used instead to indicate a special address to wh	agent or common representative is/has been appointed and the		

Continuation of Box No. III FURTHER APPLICANT(S) AND	OD (ELIPTHER) INVENTOR(C)			
If none of the following sub-boxes is used, this sheet should not be				
Name and address: (Family name followed by given name; for a legal entity, fin The address must include postal code and name of country. The country of the add Box is the applicant's State (that is, country) of residence if no State of residence is in	official designation. This person is:			
LINDER Stefan	applicant and inventor			
Stöckliackerweg 6	inventor only (If this check-box			
CH-4800 Zofingen	is marked, do not fill in below.)			
Switzerland	Applicant's registration No. with the Office			
State (that is, country) of nationality: CH Sta	ate (that is, country) of residence:			
This person is applicant all designated all designated States of the purposes of:				
Name and address: (Family name followed by given name; for a legal entity, full The address must include postal code and name of country. The country of the address must include postal code and name of country. The country of the address is the applicant's State (that is, country) of residence if no State of residence is inc	official designation. ress indicated in this ficated below.)  This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office			
State (that is, country) of nationality:  Sta	te (that is, country) of residence:			
This person is applicant for the purposes of:  all designated States all designated States the United States of	s except America the United States the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entity, full the address must include postal code and name of country. The country of the address must include postal code and name of country. The country of the address is the applicant's State (that is, country) of residence if no State of residence is indicated by the applicant of the address of the a				
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This person is applicant for the purposes of:  all designated States the United States of	except the United States the States indicated in the Supplemental Box			
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State (that is, country) of nationality:  State	(that is, country) of residence:			
This person is applicant all designated all designated States of the purposes of:  States all designated the United States of A	the United States of America only the States indicated in the Supplemental Box			
Further applicants and/or (further) inventors are indicated on another continuation sheet.				

Sheet No. . . 3

Box No. V DESIGNA	TIONS				
The filing of this request co	onstitutes under Rule 4.9(a), t every kind of protection avails	he designation of all Contable and, where applicable	racting States bound by t	he PCT on the international	
However,	•	, арричаст	, to the grant of both le	gional and national patents	
DE Germany is not	designated for any kind of nati	onal protection			
KR Republic of Kor	ea is not designated for any ki	nd of national protection			
	on is not designated for any k				
(The check-boxes above ma the national law, of an earl	y be used to exclude (irrevocab ier national application from w ns in these and certain other Si	ly) the designations concer	rned in order to avoid the See the Notes to Box No. I	ceasing of the effect, under V as to the consequences o	
Box No. VI PRIORITY	CLAIM				
The priority of the followin	g earlier application(s) is hereb	y claimed:			
Filing date	Number	. V	Where earlier application	is:	
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application receiving Office	
item (1) 17. November 2003 (17.11.03)	03405816.4		EPA		
item (2)					
item (3)					
Further priority claims	are indicated in the Supplemen	ntal Box.			
The receiving Office is requesthe earlier application was finabove as:	ested to prepare and transmit to iled with the Office which for the	the International Bureau a e purposes of this internati	a certified copy of the ear	lier application(s) (only if ceciving Office) identified	
all items items	em (1) item (2)	item (3)	Other se	e Supplemental Box	
* Where the earlier applicati Industrial Property or one M	on is an ARIPO application, ind lember of the World Trade Org	diameter at I and a			
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Box No. VII INTERNAT	IONAL SEARCHING AUTI	HORITY			
Choice of International Sea international search, indicate ISA / EPA	arching Authority (ISA) (if two-line Authority chosen; the two-line two-lin	ener code may be usedy.	arching Authorities are c	competent to carry out the	
	rlier search: reference to the	at search (if an earlier sea	rch has been carried out	by or requested from the	
Date (day/month/year)	Number		Country (or regional		
17.11.2003	0340581	6.4		PA	
Box No. VIII DECLARAT	TONS				
The following declarations a check-boxes below and indica	are contained in Boxes Nos. V	III (i) to (v) (mark the app er of each type of declarati	licable	Number of declarations	
Box No. VIII (i)	Declaration as to the identity				
Box No. VIII (ii)	· · · · · · · · · · · · · · · · · · ·				
Box No. VIII (iii)	·				
Box No. VIII (iv)	·				
Box No. VIII (v) Declaration as to non-prejudicial disclosures or exceptions to lack of novelty:					

Box No. IX CHECK LIST; LANGUAGE	E OF FILING			
This international application contains:  (a) in paper form, the following number of sheets:	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of item		
request (including declaration sheets) : 4	1. X fee calculation sheet	_		
description (excluding	2. Original separate power of attorney	:		
sequence listing and/or	3.  original general power of attorney			
alaima	4. Copy of general power of attorney; reference number,	•		
abstract : 2	if any:	:		
drawings : 4	6. priority document(s) identified in Box No. VI as	:		
Sub-total number of sheets: 20				
sequence listing :	/. L. translation of international application into	•		
tables related thereto :	(language):  8. Separate indications concerning described into	:		
(for both, actual number of sheets if filed in paper form,	8. separate indications concerning deposited microorganism or other biological material			
whether or not also filed in computer readable form; see (c) below)	9. sequence listing in computer readable form (indicate type and number of carriers)	•		
Total	(i) Copy submitted for the number of the copy submitted for the			
Total number of sheets : 20  (b) only in computer readable form (Section 801(a)(i))	(ii) (only where check-box (b)(i) or (c)(i) in marked in left column)	:		
(i) sequence listing	(iii) together with relevant statement and the ideal of t	:		
(ii) tables related thereto (c) also in computer readable form (Section 801(a)(ii))	10.  tables in computer readable form related to	:		
(i) sequence listing	(i) $\prod$ conv submitted for the			
(ii) \( \text{ tables related thereto} \)  Type and number of carriers (diskette, CD POM CD P	application)			
contained the	(ii) (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 2007.	•		
sequence listing:	(iii) I together with relevant statement as to the ideal of the ideal	:		
tables related thereto:	i i i i i i i i i i i i i i i i i i i	:		
items 9(ii) and/or 10(ii), in right column)	11.  other (specify):			
Figure of the drawings which should accompany the abstract:	Language of filing of the international application:			
BOX NO. X SIGNATURE OF A DRIVE CANE	AGENT OR COMMON DEPRESENTATION	1.2004		
ABB Technology AG F	AHIMO Munaf X Munaf State of the person signs (if such capacity is not obvious from reading the	reguesi).		
ZIMMERMANN Gilbert L	INDER Stefan			
9. Zummennasu	Stock Line			
	( ( ) )			
. Date of actual receipt of the purported	For receiving Office use only			
international application:	2. Drawings	:		
Corrected date of actual receipt due to later but timely received papers or drawings completing	received	d:		
the purported international application:		- 1		
Date of timely receipt of the required corrections under PCT Article 11(2):	not recei	ived:		
International Searching Authority (if two or more are competent): ISA /	6. Transmittal of search copy delayed			
	until search fee is paid			
For International Bureau use only  Pate of receipt of the record copy y the International Bureau:				
Dulcau.		1		
m PCT/PO/IOI /I		f		

Form PCT/RO/101 (last sheet) (January 2004)